

FIGURE 1

Relative TS gene expression in matching primary and metastatic tissue in
CRC (both paraffin)

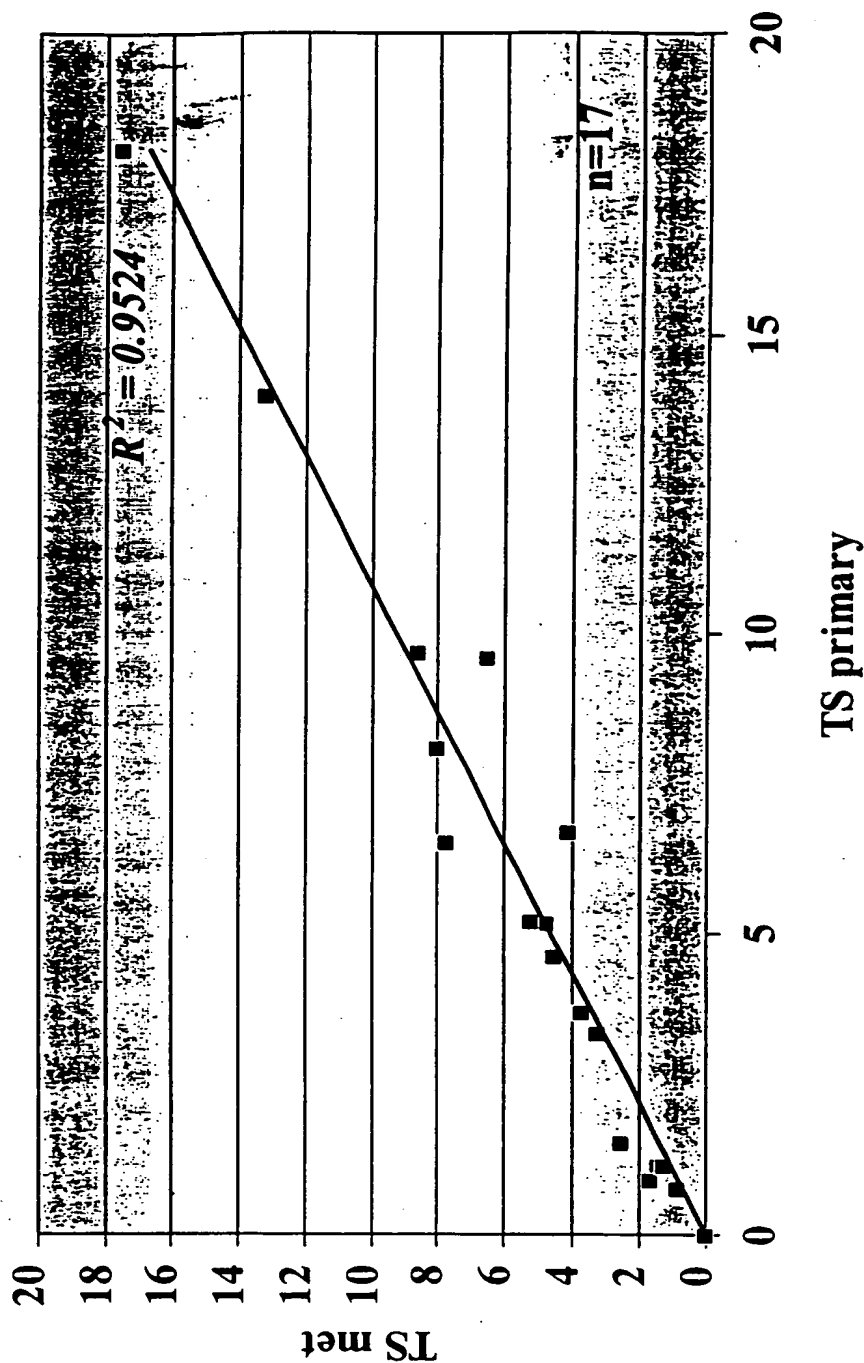


Figure 2: Chart illustrating how to calculate *EGFR* expression relative to an internal control gene

		From "test" reactions				from calibration reactions				Uncorrected Gene Expression (UGE)		Known EGFR values	Derivation of K_{cat} (average k)		Relative EGFRexp.
Sample	C_T EGFR	C_T β -actin	ΔC_T	$2^{-\Delta C_T}$	C_T EGFR	C_T β -actin	ΔC_T	$2^{-\Delta C_T}$	$2^{-\Delta C_T}/2^{-\Delta C_T}$	$2^{-\Delta C_T}/2^{-\Delta C_T}$		K_{cat}	K_{cat}		
Experimental	unknown 1	32.7	26.8	5.9	0.0167	-	-	-	0.525	-	-	26.95×10^3	14.4×10^3		
	unknown 2	32.88	26.43	6.45	0.0114	-	-	-	0.358	-	-	26.95×10^3	9.66×10^3		
	Calib. RNA	-	-	-	-	27.01	22.04	4.97	0.0319	$0.0319/0.0319=1$					
From Published Data	60N	31.61	23.86	7.75	0.00464	-	-	-	0.2117	5.70×10^{-3}		26.95×10^3	26.95×10^3	-	
	60T	29.08	20.65	8.43	0.0029	-	-	-	0.1321	3.56×10^{-3}		26.95×10^3	26.95×10^3	-	
	SF12A	28.71	20.76	7.95	0.0040	-	-	-	0.184	4.97×10^{-3}		26.95×10^3	26.95×10^3	-	
	SF12B	24.69	19.87	4.82	0.0354	-	-	-	1.613	43.5×10^{-3}		26.95×10^3	26.95×10^3	-	
	Cir11	24.03	16.3	7.73	0.0047	-	-	-	0.215	5.78×10^{-3}		26.95×10^3	26.95×10^3	-	
	AdCol	28.04	17.06	8.98	0.00198	-	-	-	0.090	2.43×10^{-3}		26.95×10^3	26.95×10^3	-	
	Calib. RNA	-	-	-	-	25.96	18.57	7.39	0.00596	$0.00596/0.00596=1$	-			-	

Fig. 3. Chart illustrating how to calculate *DPD* expression relative to an internal control gene.

	from 'test' reaction				from 'calibration' reaction				Uncorrected Calib. Exponential Values ($2^{\Delta C_T / 2}$)	Published <i>DPD</i> Values	Derivation of K_{DPD} (average K)	Corrected Relative <i>DPD</i> exp.
	Sample	C_T <i>DPD</i>	C_T p-actin	ΔC_T	$2^{\Delta C_T}$	C_T calib. RNA	C_T p-actin	ΔC_T				
Experimental	unknown 1	25.05	19.84	5.21	.027	-	-	-	4.47	-	1.08×10^3	4.83×10^3
	unknown 2	28.18	18.76	9.42	.0015	-	-	-	0.241	-	1.08×10^3	0.2608×10^3
	Calib. RNA	-	-	-	-	26.92	19.55	7.37	0.006/0.006=1	-	-	1.08×10^3
From Published Data	A	31.04	24.56	6.49	.0111	-	-	-	2.45	2.7×10^3	1.10×10^3	-
	B	27.95	20.5	7.45	.0057	-	-	-	1.26	1.2×10^3	1.08×10^3	-
	C	26.88	19.2	7.68	.00488	-	-	-	1.07	1.1×10^3	1.02×10^3	-
	D	33.32	22.88	10.44	.00072	-	-	-	0.158	0.17×10^3	1.08×10^3	-
	E	26.96	22.01	4.95	.03235	-	-	-	7.12	7.3×10^3	1.03×10^3	-
	F	25.44	21.4	4.04	.0607	-	-	-	13.38	16×10^3	1.2×10^3	-
	Calib. RNA	-	-	-	-	27.88	20.098	7.782	0.005/0.005 = 1	-	-	-

Figure 4: Chart illustrating how to calculate *TS* expression relative to an internal control gene

		from "test" reaction					from "calibration" reaction					Uncorrected Gene Expression (UGE)	Published TS values	Derivation of K_{TS} (average K)		Relative TS exp.
	Sample	C_T TS	C_T β-actin	ΔC_T	$2^{-\Delta C_T}$	C_T TS	C_T β-actin	ΔC_T	$2^{-\Delta C_T}$	$2^{-\Delta C_T/2}$		K_{TS}	K_{TS}			
Experimental	unknown 1	26.14	19.35	6.79	0.00903					0.178			12.6×10^3	2.25×10^3		
	unknown 2	32.07	28.38	3.69	0.0748					1.33			12.6×10^3	$16,758 \times 10^3$		
	Calib. RNA	-	-	-	-	27.94	23.79	4.15	0.0563	0.0563						
From Published Data	L7	26.94	24.55	2.39	0.191		-	-	-	3.18		38.8×10^3	12.2×10^3	12.6×10^3		
	L91	24.91	22.12	2.79	0.144		-	-	-	2.40		28.55×10^3	12.31×10^3	12.6×10^3		
	L121	24.95	20.89	4.06	0.059		-	-	-	0.88		12.22×10^3	13.88×10^3	12.6×10^3		
	L150	29.77	22.88	6.89	0.008		-	-	-	0.133		1.72×10^3	12.93×10^3	12.6×10^3		
	L220	26.52	19.77	6.75	0.0092		-	-	-	0.153		1.89×10^3	12.35×10^3	12.6×10^3		
	L164	26.81	21.21	5.6	0.0205		-	-	-	0.341		4.2×10^3	12.31×10^3	12.6×10^3		
	Calib. RNA	-	-	-	-	25.14	20.09	5.04	0.06	0.06	0.06			-		